Page 2 of 15

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) An air cleaner comprising:

a cabinet including an inlet drawing through which a room air of a room is drawn, and an

outlet discharging from which a cleaned air is discharged to a-the room;

a filter assembly provided inside the cabinet so as to remove dust and smell particles

from the room air drawn through the inlet;

a fan provided located inside the cabinet so as to discharge the cleaned room air filtered

by the filter assembly to the outlet after drawing the room air;

a sensor assembly provided located inside the cabinet so as to sense composition of the

room air drawn through the inlet;

a supplier assembly provided located inside the cabinet so as to provide at least one of

insufficient components of the room air to the room air eleaned-filtered by the filter assembly;

and

a controller for controlling the supplier assembly on the basis of data regarding the

composition of the room air from the sensor assemblyto supply the at least one of the

components of the room air to the room air filtered by the filter assembly when the sensor

assembly senses an insufficient amount of the at least one of the components of the room air

drawn through the inlet.

2. (Original) The air cleaner as claimed in claim 1, wherein the sensor assembly senses

the composition of the room air before the air passes through the filter assembly.

Page 3 of 15

3. (Original) The air cleaner as claimed in claim 1, wherein the sensor assembly includes

at least one of:

a first sensor measuring an oxygen content of the room air;

a second sensor measuring a temperature inside the room;

a third sensor measuring a dust content of the room air; and

a fourth sensor measuring a gas content of the room air

4. (Currently Amended) The air cleaner as claimed in claim 3, wherein the fourth sensor

is provided to is for measure measuring at least one of carbon monoxide, CO2 and nitride oxide

 NO_x .

5. (Currently Amended) The air cleaner as claimed in claim 3, wherein the sensor

assembly includes a fifth sensor for measuring the humidity inside the room.

6. (Currently Amended) The air cleaner as claimed in claim 1, wherein the supplier

assembly includes a first supplier for providing oxygen to the eleaned-room air filtered by the

filter assembly.

7. (Currently Amended) The air cleaner as claimed in claim 6, wherein the supplier

assembly includes a second supplier for providing anion to the eleaned-room air filtered by the

filter assembly.

8. (Currently Amended) The air cleaner as claimed in claim 6, wherein the supplier

assembly includes a third supplier for providing terpene to the cleaned air.

9. (Currently Amended) The air cleaner as claimed in claim 1, further comprising a

cooling/heating device provided-located inside the cabinet, so as to cool or heat the cleaned air.

10. (Currently Amended) The air cleaner as claimed in claim 9, wherein the

cooling/heating device is provided with a thermoelectric module.

11. (Currently Amended) The air cleaner as claimed in claim 10, wherein the

thermoelectric module includes:

a first side having an exothermic or endothermic reaction, and being in contact with the

eleaned room air filtered by the filter assembly; and

a second side having an opposite reaction to that of the first side, and not being in contact

with the cleaned-room air filtered by the filter assembly.

12. (Original) The air cleaner as claimed in claim 1, wherein the fan has a variable

rotation speed.

13. (Currently Amended) A method of controlling an operation of an air cleaner

comprising:

sensing a room air drawn from a room into the inside of a cabinet through an inlet;

Application No. 10/829,229 Docket No.: 0465-1134P

Amendment dated January 13, 2006

Reply to Office Action of October 13, 2005

measuring insufficient at least one of components of the room air and the amount thereof

Page 5 of 15

by comparing the sensed data a sensed amount of the at least one of the components from the

sensing step with previously inputted data; and

providing supplying the at least one of the insufficient components of the room air to the

room air cleaned filtered by a filter assembly when the sensed amount is less than the previously

inputted data; and

guided-guiding the room air filtered by a filter assembly and the supplied at least one of

the components of the room air to an outlet by a fan.

14. (Currently Amended) The method as claimed in claim 13, wherein the step of

supplying the at least one of the components of the room air includes supplying at least one of

oxygen and anion is provided to the air cleaned by the filter assembly and guided to the outlet by

the fan to the room air filtered by a filter assembly.

15. (Currently Amended) The method as claimed in claim 13, further comprising a step

of providing supplying terpene to the room air eleaned filtered by the filter assembly and guided

guiding the terpene to the outlet by the fan.

16. (Currently Amended) The method as claimed in claim 13, further comprising steps

of:

calculating at least one of a dust content and a gas content of the room air on the basis of

the sensed databased on a result of the sensing step; and

Docket No.: 0465-1134P

Application No. 10/829,229
Amendment dated January 13, 2006

Reply to Office Action of October 13, 2005

Page 6 of 15

controlling a rotation speed of the fan on the basis of based on at least one of the dust

content and the gas content from the calculating step.

17. (Currently Amended) The method as claimed in claim 16, wherein the fan has is

operated at a variable rotation speed including:

a high speed when the dust or gas content of the room air is above the a previously

inputted range;

a normal speed when the dust or gas content of the room air is within the previously

inputted range; and

a low speed when the dust or gas content of the room air is below the previously inputted

range.

18. (Currently Amended) The method as claimed in claim 13, further comprising steps

of:

detecting that detecting whether a temperature of the room air is within a summer

seasonfirst temperature range or a winter seasonsecond temperature range on the basis of

thebased on previously inputted temperature data; and

cooling or heating the air eleaned-filtered by the filter assemblyand-guided to the outlet

on the basis of the detected season based on a result of the detecting step.

19. (Currently Amended) The method as claimed in claim 18, wherein, if it is detected

that the room air has a temperature corresponding to a summer seasonthe first temperature range,

Docket No.: 0465-1134P

Application No. 10/829,229
Amendment dated January 13, 2006

Reply to Office Action of October 13, 2005

Page 7 of 15

the cleaned air, having cooling the air to a temperature lower than the temperature of the room

air at a range between 1° C and 3° C, is provided to an indoor room.

20. (Currently Amended) The method as claimed in claim 18, wherein, if it is detected

that the room air has a temperature corresponding to a winter seasonthe second temperature

range, the cleaned air, having heating the air to a temperature higher than the temperature of the

room air at a range between 1° C and 3° C, is provided to an indoor room.

21. (New) The air cleaner as claimed in claim 1, wherein the filter assembly is located

inside the cabinet.

22. (New) The air cleaner as claimed in claim 21, wherein the sensor assembly is located

between the inlet and the filter assembly.

23. (New) The air cleaner as claimed in claim 1, wherein the supplier assembly includes

an oxygen container for supplying oxygen.

24. (New) The air cleaner as claimed in claim 23, wherein the oxygen container is

exchangeable.

25. (New) The air cleaner as claimed in claim 1, wherein the components supplied by the

supplier assembly are selected from a group consisting of oxygen, anions and terpene.

Application No. 10/829,229 Amendment dated January 13, 2006

Reply to Office Action of October 13, 2005

Page 8 of 15

Docket No.: 0465-1134P

26. (New) The air cleaner as claimed in claim 3, wherein the fourth sensor is for detecting

an amount of anions in the room air.

27. (New) The method as claimed in claim 14, wherein the step of supplying oxygen

includes supplying the oxygen from an oxygen container.

28. (New) The method as claimed in claim 27, wherein the step of supplying the oxygen

from the oxygen container includes supplying the oxygen from an exchangeable oxygen

container.

29. (New) The method as claimed in claim 13, wherein the components supplied are

selected from a group consisting of oxygen, anions and terpene.